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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/543,094	04/18/2006	Bruce Megarian	066455-0258	5708	
25269 DYKEMA GO	7590 08/09/200 SSETT PLLC	EXAM	EXAMINER		
FRANKLIN SQUARE, THIRD FLOOR WEST 1300 I STREET, NW WASHINGTON, DC 20005			HARCOU	HARCOURT, BRAD	
			ART UNIT	PAPER NUMBER.	
		3672			
	•	•			
			MAIL DATE	DELIVERY MODE	
			08/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

The MAILING DATE of this communication app Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY	Y IS SET TO EXPIRE 3 MO ATE OF THIS COMMUNIC, 36(a). In no event, however, may a rep vill apply and will expire SIX (6) MONTH	ONTH(S) OR THIRTY (30) DAYS, ATION.			
The MAILING DATE of this communication app Period for Reply	Brad Harcourt  Dears on the cover sheet with  Y IS SET TO EXPIRE 3 MO  ATE OF THIS COMMUNIC  36(a). In no event, however, may a rep  will apply and will expire SIX (6) MONTH	3672  In the correspondence address  ONTH(S) OR THIRTY (30) DAYS,  ATION.			
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<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING D.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period v.</li> <li>Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>		NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) ▼ This  3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.				
Disposition of Claims					
4) ☐ Claim(s) 1-12 and 14 is/are pending in the app 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 1-10 and 14 is/are allowed. 6) ☐ Claim(s) 11 and 12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by drawing(s) be held in abeyance ion is required if the drawing(s)	e. See 37 CFR 1.85(a). ) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/22/2005.	Paper No(s)/I	mmary (PTO-413) Mail Date ormal Patent Application			

Application/Control Number: 10/543,094 Page 2

Art Unit: 3672

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11 and 12 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by McGarian (GB 2,377,234).

McGarian discloses a multi-cycle downhole apparatus comprising circulation sub 2; cylindrical body 4 with a longitudinal bore 12; apertures 40; piston 42; pin 86; control groove 52 defined in piston 42; control member 26. Piston 42 is slidable to align piston apertures 36 with body apertures 40 to allow or restrict communication from bore 12 to outside of sub 2. Control groove 52 defines a closed loop and determines whether or not longitudinal piston movement will alternate sub 2 between open or closed positions (Fig. 1a).

## Allowable Subject Matter

Claims 1-10 and 14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to disclose a piston with a circumferential control groove that is restricted against rotational movement.

## Conclusion

Art Unit: 3672

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brad Harcourt whose telephone number is 571-272-7303. The examiner can normally be reached on Monday through Friday from 8:30 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Bagnell

Supervisory Patent Examiner

Art Unit 3672

BH 8/03/07